

SIMATIC S7-300 SM 321

# Product Data Sheet

**6ES7321-1CH00-0AA0**

Isolated Digital Input Module

|                                        |                         |                          |                          |
|----------------------------------------|-------------------------|--------------------------|--------------------------|
| INPUT CHANNEL ALLOCATION               | RATED SIGNAL VOLTAGE    | FRONT CONNECTOR CONTACTS | BACKPLANE CURRENT AT 5 V |
| <b>16 individually isolated inputs</b> | <b>24 to 48 V AC/DC</b> | <b>40 pins</b>           | <b>100 mA maximum</b>    |

Siemens 6ES7321-1CH00-0AA0 is an SM 321 digital input module for SIMATIC S7-300. It connects sixteen individually isolated 24 to 48 V AC/DC signals to a compatible controller station.

01

## VERIFIED TECHNICAL DATA

|                              |                                   |
|------------------------------|-----------------------------------|
| Input channel allocation     | 16 individually isolated inputs   |
| Rated signal voltage         | 24 to 48 V AC/DC                  |
| Front connector contacts     | 40 pins                           |
| Backplane current at 5 V     | 100 mA maximum                    |
| Power loss by input rating   | 1.5 W at 24 V; 2.8 W at 48 V      |
| Signal zero voltage          | -5 to +5 V AC                     |
| Signal one voltage           | 14 to 60 V AC                     |
| Typical active-input current | 2.7 mA                            |
| Input delay                  | 16 ms for both edges              |
| Cable distance limits        | 1000 m shielded; 600 m unshielded |

## ADDITIONAL PRODUCT DATA

---

|                                        |                      |
|----------------------------------------|----------------------|
| Two-wire sensor idle current           | 1 mA maximum         |
| Input characteristic                   | IEC 61131 type 1     |
| Permitted circuit potential difference | 170 V DC or 120 V AC |
| Isolation test voltage                 | 1500 V AC            |

## DOCUMENTED USE SETTINGS

---

Manufacturing and Industrial Processing Control: Industrial Manufacturing Process Automation.

Packaging Processing and Material Converting: Industrial Packaging Process Automation.

Water Supply and Wastewater Treatment: Municipal Water Supply Control.

## SYSTEM COMPATIBILITY

---

Integrate 6ES7321-1CH00-0AA0 only in the documented SIMATIC S7-300 SM 321 configuration. Match the installed interfaces and the engineered application before selecting this isolated digital input module.

## PRODUCT EVIDENCE

---

Siemens technical documentation for 6ES7321-1CH00-0AA0

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM